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### CLAIMS

1. A tower, in particular for a wind energy turbine, comprising:
  - a first tower segment (18) having a wall (20) comprising concrete material and
  - a second tower segment (26) having a wall (28) comprising steel,
  - wherein the wall (28) of the second tower segment (26) comprises an end portion (30) embedded in an embedment portion (32) of the wall (20) of the first tower segment (18), and
  - wherein the second tower segment (26) within its embedded end portion (30) comprises at least one anchoring element (38,40,52) projecting radially from an inner or an outer surface (42,44) or both inner and outer surfaces (42,44) of the wall (28) of the second tower segment (26), the anchoring elements (38,40,52) being arranged along an axial direction of the second tower segment (26).
2. The tower according to claim 1, wherein the first tower segment (18) is tubular and, in particular, cylindrical or conical.
3. The tower according to claim 1 or 2, wherein the second tower segment (26) is tubular and, in particular, cylindrical or conical, or comprises at least one beam.
4. The tower according to any one of claims 1 to 3, wherein the anchoring elements (40) further have an enlarged free end portion opposite to the wall (28) of the second tower segment (26).
5. The tower according to claim 4, wherein the anchoring elements (40) having enlarged free end portions further comprises headed studs.

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6. The tower according to any one of claims 1 to 5, wherein the anchoring elements (38) extend contiguously in a circumferential direction of the second tower segment (26).
7. The tower according to claim 6, wherein the contiguous anchoring elements (38) further comprise annular portions.
8. The tower according to any one of claims 1 to 7, wherein the anchoring elements (38,40,52) are welded to the wall (28) of the second tower segment (26).
9. The tower according to any one of claims 1 to 8, wherein the wall (20) of the first tower segment (18) further comprises a reinforcement element (46,50) in at least its embedment portion (32).
10. The tower according to claim 9, wherein the wall (20) of the first tower segment (18) comprises pre-stressed concrete in at least its embedment end portion.
11. The tower according to claim 10, wherein the wall (20) of the first tower segment (18) comprises pre-stressing elements (46) axially extending through at least the embedment portion (32) and arranged so as to face the inner surface (42) or the outer surface (44) of the embedded end portion (30) of the second tower segment (26).
12. The tower according to claim 11, wherein the anchoring elements (38,40,52) are arranged at that surface (42,44) of the embedded end portion (30) of the wall (28) of the second tower segment (26) adjacent to the pre-stressing elements (46) of the first tower segment (18).